

**BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU**



MANPOWER STANDARD 2317SO

1 DECEMBER 2004

Manpower Standard

**NONDESTRUCTIVE INSPECTION LABORATORY
EC-130E (RIVET RIDER)**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the process oriented description (POD) for varying levels of workload in the Nondestructive Inspection Laboratory EC-130E (Rivet Rider). This ANGMS applies to the Nondestructive Inspection Laboratory EC-130E, Rivet Rider mission only, at the 193rd SOW, PA. This standard applies to peacetime operations only. The Air National Guard (ANG) is the authority for the approval and publication of ANG Manpower Standards. Air Force (AF) and ANG directives contain policy and procedural guidance for the operation of the Rivet Rider function. This standard was developed in accordance with AF Instruction (AFI) 38-201, *Determining Manpower Requirements*, and AF Manual (AFMAN) 38-208, Volume 1, *Air Force Management Engineering Program (MEP) - Processes*, and AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*. Send comments and suggested improvements on AF IMT 847, *Recommendation for Change of Publication*, through channels, to ANG, Management Engineering Branch (ANG/XPME/Operating Location TN [OLTN]), 106 Briscoe Drive, McGhee Tyson ANG Base TN 37777-6283.

1. STANDARD DATA:

1.1. Approval Date. 1 December 2004

1.2. Man-hour Data Source. A Directed Requirement was used to determine man-hour/manpower data.

1.3. Standard Man-hour Equation. $Y = 2$ is required IAW Technical Order 33B-1-1 (Constant Manpower).

1.4. Workload Factor.

1.4.1. Title: A Primary Aircraft Authorized.

1.4.2. Definition: The Number of Primary Aircraft Authorized.

1.4.3. Source: USAF Program Document (PD), Volume II maintained by ANG/XPPI.

1.4.4. Points of Contact:

1.4.4.1. Functional: Lt Col Robert Hoback, ANG/LGY.

1.4.4.2. Manpower: Mr. Steve Griffith, Chief, ANG/XPME, Management Engineering Branch.

2. APPLICATION INSTRUCTIONS. This work center requires constant manpower of two requirements. No other application instructions apply.

3. STATEMENT OF CONDITIONS: The conditions listed had no affect on the development of this standard: minimum response rates, minimum manpower levels, standardized crew complements, safety considerations, aircraft turn-around time, length of waiting periods, levels of backlog and hours of operation.

DANIEL JAMES III, Lieutenant General, USAF
Director, Air National Guard

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 38-201, *Determining Manpower Requirements*

AFMAN) 38-208, Volume 1, *Air Force Management Engineering Program (MEP)-Processes*

AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*

Abbreviations and Acronyms

AF -- Air Force

AFI -- Air Force Instruction

AFSC -- Air Force Specialty Codes

AGE -- Aerospace Ground Equipment

ANG -- Air National Guard

ANGI -- Air National Guard Instruction

ANGMS -- Air National Guard Manpower Standard

FMB -- Financial Management Board

MEP -- Management Engineering Program

MSDS -- Material Safety Data Sheets

NDI -- Nondestructive Inspection

POD -- Process Oriented Description

TCTO -- Time Compliance Technical Order

UTA -- Unit Training Assembly

Terms

Air National Guard Manpower Standard (ANGMS)--A numbered, specialized publication that quantifies manpower requirements for a work center. Also includes approved variances. See AFI 38-201.

Man-hour--A unit of measuring work. It is equivalent to one person working at a normal pace for 60 minutes, two people working at a normal pace for 30 minutes, or a similar combination of people working at a normal pace for a period to time equal to 60 minutes.

Manpower Standard--The basic tool used to determine the minimum level of manpower required to support a function. It is a quantitative expression that represents a work center's man-hour requirements in response to varying levels of workload.

Process Oriented Description--A format that shows work center responsibilities structured for easy measurement of work categories, tasks and subtasks.

Attachment 2

PROCESS ORIENTED DESCRIPTION NONDESTRUCTIVE INSPECTION LABORATORY

Table A2.1. Listing of Functional Process.

TASK NO	PROCESS
1.	MAGNETIC PARTICLE INSPECTION. Performs direct and alternating current inspections. Performs process control, prepares for work, performs pre-inspection to determine method suitability, prepares part for inspection, performs inspection, performs post cleaning, and completes documentation.
2.	ELECTROMAGNETIC INSPECTION. Performs process control, prepares for work, performs pre-inspection to determine method suitability, prepares part for inspection, performs inspection, performs post cleaning, and completes documentation.
2.1.	PERFORMS EDDY CURRENT INSPECTION.
2.2.	PERFORMS CONDUCTIVITY.
3.	PENETRATING RADIATION (X-RAY) INSPECTION.
3.1.	PERFORMS X-RAY INSPECTION. Performs process control, prepares for work, performs pre-inspection perform X-Ray safety inspection, and completes documentation.
3.2.	ENSURES RADIATION PROTECTION PROGRAM IS ENFORCED. Inspects X-Ray facility for serviceability and possible radiation exposure. Documents results of X-Ray equipment, safety device, and X-Ray facility inspection.
4.	FLUORESCENT DYE PENETRANT INSPECTION. Performs process control, prepares for work, performs pre-inspection, prepares part for inspection, performs inspection, performs post cleaning, and completes documentation.
5.	VISUAL INSPECTION. Performs visual inspection and determines no further maintenance is required.
6.	ULTRASONIC INSPECTION. Performs process control, prepares for work, performs pre-inspection, prepares part for inspection, performs inspection, performs post cleaning, and completes documentation.
7.	BORESCOPE INSPECTION. Performs video camera inspection and completes documentation.
8.	TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs TCTO, operational check, and completes documentation.

9.	SPECIAL PLANNING OR SCHEDULING. Performs planning or scheduling associated with preparation for unit training assembly, annual tour, or mobility participation.
9.1.	PREPARES FOR UNIT TRAINING ASSEMBLY.
9.2.	PREPARES FOR ANNUAL TOUR.
9.3.	PREPARES FOR MOBILITY/DEPLOYMENT PARTICIPATION.
10.	TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts technical data, changes, and supplements to technical order file. Maintains and inventories file for serviceability.
11.	ASSISTANCE. Assists other maintenance work center in the performance of maintenance related tasking.
12.	MAINTENANCE AUTOMATED SYSTEM. Makes input to Core Automated Maintenance System. Retrieves, analyzes and reconciles data.
13.	HAZARDOUS WASTE PROGRAM MANAGEMENT.
13.1.	PROCESSES HAZARDOUS WASTE. Identifies, labels, contains, and disposes of hazardous waste.
13.2.	MAINTAINS COLLECTION FACILITY. Maintains hazardous waste accumulation point, satellite collection area, and container.
13.3.	MAINTAINS PROTECTIVE EQUIPMENT. Inspects and maintains protective equipment.
13.4.	PARTICIPATES IN POLLUTION, PREVENTION AND REDUCTION PROGRAM. Attends training classes in chemical reduction and management. Monitors level of usage. Maintains certification/recertification in Hazardous Waste Handling.
14.	FOREIGN OBJECT DAMAGE WALK/INSPECTION. Performs walk around the maintenance complex and runway for debris.
15.	NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE)/SHOP TEST EQUIPMENT. Inspects and repairs non-powered AGE and shop test equipment.
16.	TRAVEL. Travel as it relates to the C-130 mission. Travel time for getting to and from workshop, conference, and meeting.
17.	SHOP STOCK.
17.1.	MAINTAINS SHOP STOCK. Determines requirement, obtains part from Supply, stores in bin upon receipt, and maintains required documentation.
17.2.	PERFORMS ANNUAL SHOP STOCK REVIEW.
18.	MATERIEL SAFETY DATA SHEETS (MSDS). Updates MSDS file to maintain serviceability.

19.	INDIRECT. Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are: Administers Civilian, Officer, and Enlisted Personnel; Directs Work Center Activity; Provides Administrative Support; Prepares for and Conducts/Attends Meeting; Administers Training; Manages Supplies; Maintains Equipment; and Performs Cleanup.
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Attachment 3

MANPOWER TABLE

Table A3.1. Standard Manpower Table.

Work Center	Air Force Specialty Title	AFSC	Manpower Requirement							
Non-Destructive Inspection	Non-Destructive Inspection	2A7XX	2							
Total			2							

Note. AFSCs may be adjusted at the discretion of the Commander.